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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/967,009	09/28/2001	Ashok N. Rudrapatna	21-1	5654	
46290 73	590 08/09/2006		EXAMINER		
WILLIAMS, MORGAN & AMERSON 10333 RICHMOND, SUITE 1100 HOUSTON, TX 77042			BAKER, ST	BAKER, STEPHEN M	
			ART UNIT	PAPER NUMBER	
•			2133		
			DATE MAILED: 08/09/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/967,009	RUDRAPATNA ET AL.		
		Examiner	Art Unit		
		Stephen M. Baker	2133		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
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Status					
2a)⊠	Responsive to communication(s) filed on 16 M. This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under Education 1 to 1	action is non-final.			
Dispositi	ion of Claims				
5) □ 6) ☑ 7) ☑ 8) □ Applicati	Claim(s) 1 and 3-21 is/are pending in the application of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1.3.4 and 7-21 is/are rejected. Claim(s) 5 and 6 is/are objected to. Claim(s) are subject to restriction and/or are subjected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the original subjection to the original subjection and request that any objection to the original subjection is objected to by the Examine The drawing(s) filed on is/are: a)	wn from consideration. r election requirement. r. epted or b) objected to by the E			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex				
	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa			

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 10-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 10, "performing independent error detection of at least two of the received error control coded streams using respective separate error control code encoders in a multiple antenna system" is mis-descriptive, and apparently should read as "performing independent error detection of at least two of the received error control coded streams", as encoders do not perform error detection. For "performing error detection," applicant shows separate CRC checking processes (355₁, 355_P) distinct from the two error control code encoders (325₁, 325_P) and the two error control code encoders (350₁, 350_P).

Claim Rejections - 35 USC § 102

3. Claims 1, 3, 4 and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,771,705 to Kenney *et al* (hereafter Kenney).

Kenney discloses a wireless data transmission arrangement including transmitter circuitry (FIG. 2) comprising a pair of turbo code component encoders (Encoder 1,

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Encoder 2) providing "a separate error control code encoder for each stream" for "forming separately at least two error control coded streams" (Parity data subset 1, Parity data subset 4) from a "block of information" (Systematic Data). Separate antennas (113, 114) are used by Kenney's transmitter to transmit the respective "error control coded streams". Kenney's data transmission arrangement further uses a hybrid ARQ protocol with incremental redundancy (col. 7, lines 26+), and therefor transmits this data in response to a "confirmation message" of the ARQ protocol.

Regarding claim 9, the system disclosed by Kenney can be considered a "one-to-many" communication system" as a single base station typically communicates with several mobile units.

Allowable Subject Matter

- 4. Claims 10-21 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 5. Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed 16 may 2006 have been fully considered but they are not persuasive.

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Applicant's position regarding the patent to Kenney is apparently that the two separate error control code encoders (Encoder 1, Encoder 2) that separately form separate error control code streams (Parity data subset 1, Parity data subset 4) are not separate error control code encoders because each encoder "encodes the same information bit sequence into a plurality of encoded bit sequences differently. Applicant is presumably alluding to the presence of additional error control code streams (Parity data subset 3, Parity data subset 4). The claims do not appear to definitely exclude additional error control code encoders or additional error control code streams, however, so the relevance of Applicant's argument to the claims is not apparent.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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PM).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Baker whose telephone number is (571) 272-3814. The examiner can normally be reached on Monday-Friday (11:00 AM - 7:30

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen M. Baker Primary Examiner Page 5

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smb